



# SEQUENCE LISTING

<110> ImmunoGen, Inc.

<120> ANTI-CD33 ANTIBODIES AND METHODS FOR TREATMENT OF ACUTE MYELOID  
LEUKEMIA USING THE SAME

<130> A8427

<140> 10/700,632

<141> 2003-11-05

<150> US 60/424,332

<151> 2002-11-07

<160> 96

<170> PatentIn version 3.3

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<212> PRT

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<400> 1

Ser Tyr Tyr Ile His

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<222> (16)..(16)

<223> "X" may be K or Q

<400> 2

Val Ile Tyr Pro Gly Asn Asp Asp Ile Ser Tyr Asn Gln Lys Phe Xaa

1

5

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15

Gly

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<213> Mus musculus

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Glu Val Arg Leu Arg Tyr Phe Asp Val  
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Lys Ser Ser Gln Ser Val Phe Phe Ser Ser Ser Gln Lys Asn Tyr Leu  
1 5 10 15

Ala

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<213> Mus musculus

<400> 5

Trp Ala Ser Thr Arg Glu Ser  
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<400> 6

His Gln Tyr Leu Ser Ser Arg Thr  
1 5

<210> 7

<211> 118

<212> PRT

<213> Mus musculus

<400> 7

Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Val Val Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
20 25 30

Tyr Ile His Trp Ile Lys Gln Thr Pro Gly Gln Gly Leu Glu Trp Val  
 35 40 45

Gly Val Ile Tyr Pro Gly Asn Asp Asp Ile Ser Tyr Asn Gln Lys Phe  
 50 55 60

Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Thr Thr Ala Tyr  
 65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Val Arg Leu Arg Tyr Phe Asp Val Trp Gly Ala Gly Thr  
 100 105 110

Thr Val Thr Val Ser Ser  
 115

<210> 8  
 <211> 113  
 <212> PRT  
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<400> 8

Asn Ile Met Leu Thr Gln Ser Pro Ser Ser Leu Ala Val Ser Ala Gly  
 1 5 10 15

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Phe Phe Ser  
 20 25 30

Ser Ser Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Ile Pro Gly Gln  
 35 40 45

Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val  
 50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr  
 65 70 75 80

Ile Ser Ser Val Gln Ser Glu Asp Leu Ala Ile Tyr Tyr Cys His Gln  
 85 90 95

Tyr Leu Ser Ser Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
100 105 110

Arg

<210> 9  
<211> 118  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Humanized My9-6 antibody heavy chain variable region

<400> 9

Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Val Val Lys Pro Gly Ala  
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Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
20 25 30

Tyr Ile His Trp Ile Lys Gln Thr Pro Gly Gln Gly Leu Glu Trp Val  
35 40 45

Gly Val Ile Tyr Pro Gly Asn Asp Asp Ile Ser Tyr Asn Gln Lys Phe  
50 55 60

Gln Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Thr Thr Ala Tyr  
65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Glu Val Arg Leu Arg Tyr Phe Asp Val Trp Gly Gln Gly Thr  
100 105 110

Thr Val Thr Val Ser Ser  
115

<210> 10  
<211> 113  
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<223> Humanized My9-6 antibody light chain variable region

<400> 10

Glu Ile Val Leu Thr Gln Ser Pro Gly Ser Leu Ala Val Ser Pro Gly  
1 5 10 15

Glu Arg Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Phe Phe Ser  
20 25 30

Ser Ser Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Ile Pro Gly Gln  
35 40 45

Ser Pro Arg Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val  
50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr  
65 70 75 80

Ile Ser Ser Val Gln Pro Glu Asp Leu Ala Ile Tyr Tyr Cys His Gln  
85 90 95

Tyr Leu Ser Ser Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105 110

Arg

<210> 11

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer HindKL

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46

<210> 12

<211> 36

<212> DNA

<213> Artificial Sequence

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<223> PCR primer Bgl2IgG1

<400> 12  
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<210> 13  
<211> 30  
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<220>  
<223> PCR primer EcoPolydC

<400> 13  
tatatctaga attccccccc ccccccccc 30

<210> 14  
<211> 32  
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<220>  
<223> PCR primer Sac1MK

<400> 14  
gggagctcga yattgtgmts acmcarwctm ca 32

<210> 15  
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<220>  
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<220>  
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<223> "n" may be any nucleotide

<400> 16  
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35

<210> 17  
<211> 34  
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<220>  
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<220>  
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<223> "n" may be any nucleotide

<220>  
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<222> (29)..(29)  
<223> "n" may be any nucleotide

<400> 17  
ttttgattct gctgtgggtg tccggnacnt gygg

34

<210> 18  
<211> 33  
<212> DNA  
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<220>  
<223> Degenerate primer Leaddeg2

<220>  
<221> misc\_feature  
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<223> "n" may be any nucleotide

<220>  
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<222> (31)..(31)  
<223> "n" may be any nucleotide

<400> 18  
ttttgattcg ctgctgctgc tgtgggtnws ngg

33

<210> 19

<211> 39  
 <212> DNA  
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 <223> Degenerate primer Leaddeg3  
  
 <220>  
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 <223> "n" may be any nucleotide  
  
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 <400> 19  
 ttttgattcc caggtgttca tgctgctgyt nytntgggt 39  
  
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 <220>  
 <223> Humanization primer My96LCBsrG1  
  
 <400> 20  
 tacaggtgta cactccgata ttgtgatcac ccagactcc 39  
  
 <210> 21  
 <211> 35  
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 <223> Humanization primer My96LCOL1  
  
 <400> 21  
 actggaaatc aaacgaactg tggctgcacc atctg 35  
  
 <210> 22  
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 <213> Artificial Sequence  
  
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 <223> Humanization primer My96LCOL2  
  
 <400> 22  
 gccacagttc gtttgatttc cagtttggtg cctcc 35



<210> 23  
 <211> 39  
 <212> DNA  
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 <223> Humanization primer My96HCBsrG1  
  
 <400> 23  
 tacaggtgta cactcccagg ttaagctgca gcagtctgg 39  
  
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 <223> Humanization primer My96HCOL1  
  
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 <223> Humanization primer My9-6LCNMLS  
  
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 <210> 27  
 <211> 42  
 <212> DNA  
 <213> Artificial Sequence  
  
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<223> Humanization primer My9-6HCQP

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caggtgtaca ctcccagggt cagctgcagc agcctggggc tg 42

<210> 28  
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<220>  
<223> Humanization primer MY96HCQ64-1

<400> 28  
agaagttcca aggcaaggcc ac 22

<210> 29  
<211> 22  
<212> DNA  
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<220>  
<223> Humanization primer MY96HCQ64-2

<400> 29  
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<211> 60  
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<220>  
<223> Humanization primer MY96HCQ105

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<223> Humanization primer MY96LCEVGPR

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agaaagggtc actatgagc 79

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 <223> Humanization primer MY96LCP80-2  
  
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 gtcttcaggt tgaacactgc tgatgg 26  
  
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 <223> Humanization primer MY96LCQ100  
  
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<220>  
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<400> 37  
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<400> 38  
 cgatgggccc ttggtggagg ctgaggagac ggtgaccg 38

<210> 39  
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<220>  
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<400> 39  
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<210> 40  
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<220>  
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<400> 40  
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<210> 41  
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<220>
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<210> 42
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<223> Humanization primer chMy96lcBsiW1

<400> 43
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<210> 44
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<213> Mus musculus

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<222> (23)..(23)
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<400> 44

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Glu Lys Val Thr Met Ser Xaa
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<210> 45
<211> 23
<212> PRT

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<213> Mus musculus

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Asp Ile Val Ile Thr Gln Thr Pro Ser Ser Leu Ala Val Ser Ala Gly  
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Glu Lys Val Thr Met Ser Cys  
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<210> 46

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Degenerate primer Sac1MK

<400> 46

Gly Gly Gly Ala Gly Cys Thr Cys Gly Ala Tyr Ala Thr Thr Gly Thr  
1 5 10 15

Gly Met Thr Ser Ala Cys Met Cys Ala Arg Trp Cys Thr Met Cys Ala  
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<210> 47

<211> 23

<212> PRT

<213> Mus musculus

<400> 47

Asn Ile Met Leu Thr Gln Ser Pro Ser Ser Leu Ala Val Ser Ala Gly  
1 5 10 15

Glu Lys Val Thr Met Ser Cys  
20

<210> 48

<211> 17

<212> PRT

<213> Mus musculus

<400> 48

Lys Ser Ser Gln Ser Val Phe Phe Ser Ser Ser Gln Lys Asn Tyr Leu  
1 5 10 15

Ala

<210> 49  
<211> 12  
<212> PRT  
<213> Mus musculus

<400> 49

Ser Ser Gln Ser Val Phe Phe Ser Ser Ser Gln Lys  
1 5 10

<210> 50  
<211> 12  
<212> PRT  
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<400> 50

Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser  
1 5 10

<210> 51  
<211> 11  
<212> PRT  
<213> Mus musculus

<400> 51

Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu  
1 5 10

<210> 52  
<211> 19  
<212> PRT  
<213> Mus musculus

<400> 52

Arg Tyr Phe Asp Val Trp Gly Ala Gly Thr Thr Val Thr Val Ser Ser  
1 5 10 15

Ala Lys Thr

<210> 53  
<211> 20  
<212> PRT  
<213> Mus musculus

<400> 53

Glu Val Arg Leu Arg Tyr Phe Asp Val Trp Gly Ala Gly Thr Thr Val  
1 5 10 15

Thr Val Ser Ser  
20

<210> 54

<211> 19

<212> PRT

<213> Mus musculus

<400> 54

Met Gly Glu Asp Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr  
1 5 10 15

Val Ser Ser

<210> 55

<211> 339

<212> DNA

<213> Mus musculus

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atgagctgta agtccagtc aagtgttttt ttcagttcaa gtcagaagaa ctacttggcc 120  
tggtaccaac agataccagg gcagtctcct aaacttctga tctactgggc atccactagg 180  
gaatctggtg tccctgatcg cttcacaggc agtggatctg ggacagattt tactcttacc 240  
atcagcagtg tacaatctga agacctggca atttattact gtcataata cctctcctcg 300  
cggacgttcg gtggaggcac caaactggaa atcaaacga 339

<210> 56

<211> 354

<212> DNA

<213> Mus musculus

<400> 56

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tcctgcaagg cttctggcta cacatttacc agttactata tacactggat aaagcagaca 120  
cctggacagg gcctggaatg gggtggagtt atttatccag gaaatgatga tatttcctac 180



aatcagaagt tcaaaggcaa ggccacattg actgcagaca aatcctccac cacagcctac 240  
atgcaactca gcagcctgac atctgaggac tctgcggtct attactgtgc aagagagggt 300  
cgtctacggg acttcgatgt ctggggcgca gggaccacgg tcaccgtctc ctca 354

<210> 57  
<211> 17  
<212> PRT  
<213> Mus musculus

<400> 57

Val Ile Tyr Pro Gly Asn Asp Asp Ile Ser Tyr Asn Gln Lys Phe Lys  
1 5 10 15

Gly

<210> 58  
<211> 10  
<212> PRT  
<213> Mus musculus

<400> 58

Gly Tyr Thr Phe Thr Ser Tyr Tyr Ile His  
1 5 10

<210> 59  
<211> 10  
<212> PRT  
<213> Mus musculus

<400> 59

Val Ile Tyr Pro Gly Asn Asp Asp Ile Ser  
1 5 10

<210> 60  
<211> 99  
<212> PRT  
<213> Mus musculus

<400> 60

Asn Ile Met Met Thr Gln Ser Pro Ser Ser Leu Ala Val Ser Ala Gly  
1 5 10 15

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser  
 20 25 30

Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln  
 35 40 45

Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val  
 50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr  
 65 70 75 80

Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys His Gln  
 85 90 95

Tyr Leu Ser

<210> 61  
 <211> 96  
 <212> PRT  
 <213> Mus musculus

<400> 61

Val Gln Leu Gln Gln Pro Gly Ala Glu Leu Val Lys Pro Gly Ala Ser  
 1 5 10 15

Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr Trp  
 20 25 30

Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly  
 35 40 45

Arg Ile His Pro Ser Asp Ser Asp Thr Asn Tyr Asn Gln Lys Phe Lys  
 50 55 60

Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr Met  
 65 70 75 80

Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Ala  
 85 90 95

<210> 62

<211> 114  
<212> PRT  
<213> Mus musculus

<400> 62

Asn Ile Met Leu Thr Gln Ser Pro Ser Ser Leu Ala Val Ser Ala Gly  
1 5 10 15

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Phe Phe Ser  
20 25 30

Ser Ser Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Ile Pro Gly Gln  
35 40 45

Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val  
50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr  
65 70 75 80

Ile Ser Ser Val Gln Ser Glu Asp Leu Ala Ile Tyr Tyr Cys His Gln  
85 90 95

Tyr Leu Ser Ser Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
100 105 110

Arg Ala

<210> 63  
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<212> PRT  
<213> Mus musculus

<400> 63

Asp Ile Val Met Ser Gln Ser Pro Ser Ser Leu Ala Val Ser Val Gly  
1 5 10 15

Glu Lys Val Thr Met Thr Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser  
20 25 30

Ser Asn Gln Met Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val  
 50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr  
 65 70 75 80

Ile Ser Ser Val Glu Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Gln  
 85 90 95

Tyr His Ser Tyr Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile  
 100 105 110

Lys Arg Ala  
 115

<210> 64  
 <211> 115  
 <212> PRT  
 <213> Mus musculus

<400> 64

Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Thr Val Thr Ala Gly  
 1 5 10 15

Glu Lys Val Thr Met Ser Cys Thr Ser Ser Gln Ser Leu Phe Asn Ser  
 20 25 30

Gly Lys Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln  
 35 40 45

Pro Pro Lys Val Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val  
 50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr  
 65 70 75 80

Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Asn  
 85 90 95

Asp Tyr Ser Asn Pro Leu Thr Phe Gly Gly Gly Thr Lys Leu Glu Leu  
 100 105 110

Lys Arg Ala  
115

<210> 65  
<211> 115  
<212> PRT  
<213> Mus musculus

<400> 65

Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Thr Val Thr Thr Gly  
1 5 10 15

Glu Lys Val Thr Met Thr Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser  
20 25 30

Gly Ala Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val  
50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser  
65 70 75 80

Ile Ser Gly Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Asn  
85 90 95

Asn Tyr Asn Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu  
100 105 110

Lys Arg Ala  
115

<210> 66  
<211> 115  
<212> PRT  
<213> Mus musculus

<400> 66

Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Thr Val Thr Thr Gly  
1 5 10 15

Glu Lys Val Thr Met Thr Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser  
20 25 30

Arg Thr Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln  
 35 40 45

Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val  
 50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser  
 65 70 75 80

Ile Ser Gly Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Asn  
 85 90 95

Asn Tyr Asn Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu  
 100 105 110

Lys Arg Ala  
 115

<210> 67  
 <211> 115  
 <212> PRT  
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<400> 67

Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Thr Val Thr Ala Gly  
 1 5 10 15

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Phe Asn Ser  
 20 25 30

Gly Lys Arg Lys Asn Phe Leu Thr Trp Tyr His Gln Lys Pro Gly Gln  
 35 40 45

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val  
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr  
 65 70 75 80

Ile Thr Ser Val Gln Ala Glu Asp Leu Ala Ile Tyr Tyr Cys Gln Asn  
 85 90 95

Asp Tyr Ser His Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu  
100 105 110

Lys Arg Ala  
115

<210> 68  
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<212> PRT  
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<400> 68

Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Ser Val Ser Ala Gly  
1 5 10 15

Glu Arg Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser  
20 25 30

Gly Asn Gln Lys Asn Phe Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln  
35 40 45

Pro Pro Lys Leu Leu Ile Tyr Gly Ala Ser Thr Arg Glu Ser Gly Val  
50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr  
65 70 75 80

Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Asn  
85 90 95

Asp His Ser Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Ile  
100 105 110

Lys Arg Ala  
115

<210> 69  
<211> 113  
<212> PRT  
<213> Mus musculus

<400> 69

Asp Val Val Met Thr Gln Thr Pro Ser Ser Leu Ala Met Ser Val Gly

1	5	10	15
Gln Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ile			
20	25	30	
Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln			
35	40	45	
Ser Pro Lys Leu Leu Val Tyr Phe Ala Ser Thr Arg Glu Ser Gly Val			
50	55	60	
Pro Asp Arg Phe Ile Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr			
65	70	75	80
Ile Ser Ser Val Gln Ala Glu Asp Gln Ala Asp Tyr Phe Cys Gln Gln			
85	90	95	
His Tyr Arg Ala Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile			
100	105	110	

Lys

<210> 70  
 <211> 114  
 <212> PRT  
 <213> Mus musculus

<400> 70

Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly			
1	5	10	15
Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser			
20	25	30	
Ser Asn Ser Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln			
35	40	45	
Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val			
50	55	60	
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr			
65	70	75	80



Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln  
 85 90 95

Tyr Tyr Ser Thr Pro Tyr Ser Phe Gly Gln Gly Thr Lys Leu Glu Ile  
 100 105 110

Lys Arg

<210> 71  
 <211> 113  
 <212> PRT  
 <213> Mus musculus

<400> 71

Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Thr Val Thr Ala Gly  
 1 5 10 15

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser  
 20 25 30

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln  
 35 40 45

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val  
 50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr  
 65 70 75 80

Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Asn  
 85 90 95

Asp Tyr Ser Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Pro  
 100 105 110

Gly

<210> 72  
 <211> 109  
 <212> PRT

<213> Mus musculus

<400> 72

Asp Ile Val Met Thr Gln Ser Pro Lys Phe Met Ser Thr Ser Val Gly  
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Ser Thr Ala  
20 25 30

Val Val Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile  
35 40 45

Tyr Trp Ala Ser Thr Arg His Ile Gly Val Pro Asp Arg Phe Ala Gly  
50 55 60

Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Val Gln Ala  
65 70 75 80

Glu Asp Leu Ala Leu Tyr Tyr Cys Gln Gln His Tyr Ser Pro Pro Trp  
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg Ala  
100 105

<210> 73

<211> 117

<212> PRT

<213> Mus musculus

<400> 73

Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Val Val Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
20 25 30

Tyr Ile His Trp Ile Lys Gln Thr Pro Gly Gln Gly Leu Glu Trp Val  
35 40 45

Gly Val Ile Tyr Pro Gly Asn Asp Asp Ile Ser Tyr Asn Gln Lys Phe  
50 55 60

Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Thr Thr Ala Tyr  
26/38

65		70		75		80									
Met	Gln	Leu	Ser	Ser	Leu	Thr	Ser	Glu	Asp	Ser	Ala	Val	Tyr	Tyr	Cys
85					90					95					
Ala	Arg	Glu	Val	Arg	Leu	Arg	Tyr	Phe	Asp	Val	Trp	Gly	Ala	Gly	Thr
100					105					110					
Thr	Val	Thr	Val	Ser											
115															
<210> 74															
<211> 116															
<212> PRT															
<213> Mus musculus															
<400> 74															
Gln	Ile	Gln	Leu	Gln	Gln	Ser	Gly	Pro	Glu	Leu	Val	Arg	Pro	Gly	Ala
1			5						10					15	
Ser	Val	Lys	Ile	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Asp	Tyr
20					25					30					
Tyr	Ile	His	Trp	Val	Lys	Gln	Arg	Pro	Gly	Glu	Gly	Leu	Glu	Trp	Ile
35					40					45					
Gly	Trp	Ile	Tyr	Pro	Gly	Ser	Gly	Asn	Thr	Lys	Tyr	Asn	Glu	Lys	Phe
50					55					60					
Lys	Gly	Lys	Ala	Thr	Leu	Thr	Val	Asp	Thr	Ser	Ser	Ser	Thr	Ala	Tyr
65					70					75				80	
Met	Gln	Leu	Ser	Ser	Leu	Thr	Ser	Glu	Asp	Ser	Ala	Val	Tyr	Phe	Cys
85					90					95					
Ala	Arg	Gly	Gly	Lys	Phe	Ala	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Ser
100					105					110					
Val	Thr	Val	Ser												
115															
<210> 75															
<211> 119															

<212> PRT

<213> Mus musculus

<400> 75

Gln Ile Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr  
20 25 30

Tyr Ile Asn Trp Met Lys Gln Lys Pro Gly Gln Gly Leu Glu Trp Ile  
35 40 45

Gly Trp Ile Asp Pro Gly Ser Gly Asn Thr Lys Tyr Asn Glu Lys Phe  
50 55 60

Lys Gly Lys Ala Thr Leu Thr Val Asp Thr Ser Ser Ser Thr Ala Tyr  
65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Phe Cys  
85 90 95

Ala Arg Glu Lys Thr Thr Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln  
100 105 110

Gly Thr Ser Val Thr Val Ser  
115

<210> 76

<211> 118

<212> PRT

<213> Mus musculus

<400> 76

Gln Gly Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Pro Gly Ser  
1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Ser Phe  
20 25 30

Trp Val Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile  
35 40 45

Gly Gln Ile Tyr Pro Gly Asp Gly Asp Asn Lys Tyr Asn Gly Lys Phe  
50 55 60

Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Thr Thr Ala Tyr  
65 70 75 80

Met Gln Leu Tyr Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys  
85 90 95

Ala Arg Ser Gly Asn Tyr Pro Tyr Ala Met Asp Tyr Trp Gly Gln Gly  
100 105 110

Thr Ser Val Thr Val Ser  
115

<210> 77  
<211> 113  
<212> PRT  
<213> Mus musculus

<400> 77

Val Lys Leu Gln Glu Ser Gly Ala Glu Leu Ala Arg Pro Gly Ala Ser  
1 5 10 15

Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Thr Tyr Thr  
20 25 30

Ile His Trp Ile Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly  
35 40 45

Tyr Ile Asn Pro Ser Ser Val Tyr Thr Asn Tyr Asn Gln Arg Phe Lys  
50 55 60

Asp Lys Ala Thr Leu Thr Arg Asp Arg Ser Ser Asn Thr Ala Asn Ile  
65 70 75 80

His Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Tyr Cys Val  
85 90 95

Arg Glu Gly Glu Val Pro Tyr Trp Gly Gln Gly Thr Thr Val Thr Val  
100 105 110

Ser

<210> 78  
<211> 113  
<212> PRT  
<213> Mus musculus

<220>  
<221> MISC\_FEATURE  
<222> (1)..(1)  
<223> "X" may be any amino acid

<400> 78

Xaa Val Gln Leu Gln Gln Ser Asp Ala Glu Leu Val Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp His  
20 25 30

Ala Ile His Trp Ala Lys Gln Lys Pro Glu Gln Gly Leu Glu Trp Ile  
35 40 45

Gly Tyr Ile Ser Pro Gly Asn Asp Asp Ile Lys Tyr Asn Glu Lys Phe  
50 55 60

Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr  
65 70 75 80

Met Gln Leu Asn Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys  
85 90 95

Lys Arg Ser Tyr Tyr Gly His Trp Gly Gln Gly Thr Thr Leu Thr Val  
100 105 110

Ser

<210> 79  
<211> 118  
<212> PRT  
<213> Mus musculus

<400> 79

Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala Ser

1	5	10	15												
Val	Lys	Leu	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Ser	Tyr	Trp
20					25					30					
Met	His	Trp	Val	Lys	Gln	Arg	Pro	Gly	Arg	Gly	Leu	Glu	Trp	Ile	Gly
35					40					45					
Arg	Ile	Asp	Pro	Asn	Ser	Gly	Gly	Thr	Lys	Tyr	Asn	Glu	Lys	Phe	Lys
50					55					60					
Ser	Lys	Ala	Thr	Leu	Thr	Val	Asp	Lys	Pro	Ser	Ser	Thr	Ala	Tyr	Met
65					70					75					80
Gln	Leu	Ser	Ser	Leu	Thr	Ser	Glu	Asp	Ser	Ala	Val	Tyr	Tyr	Cys	Ala
85					90					95					
Arg	Tyr	Asp	Tyr	Tyr	Gly	Ser	Ser	Tyr	Phe	Asp	Tyr	Trp	Gly	Gln	Gly
100					105					110					
Thr	Thr	Val	Thr	Val	Ser										
115															

<210> 80  
 <211> 114  
 <212> PRT  
 <213> Mus musculus

<400> 80

Gln	Leu	Gln	Gln	Ser	Gly	Thr	Val	Leu	Ala	Arg	Pro	Gly	Ala	Ser	Val
1				5					10					15	
Lys	Met	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Ser	Phe	Thr	Arg	Tyr	Trp	Met
20					25					30					
His	Trp	Ile	Lys	Gln	Arg	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Ile	Gly	Ala
35					40					45					
Ile	Tyr	Pro	Gly	Asn	Ser	Asp	Thr	Ser	Tyr	Asn	Gln	Lys	Phe	Glu	Gly
50					55					60					
Lys	Ala	Lys	Leu	Thr	Ala	Val	Thr	Ser	Ala	Ser	Thr	Ala	Tyr	Met	Glu
65					70					75					80

Leu Ser Ser Leu Thr His Glu Asp Ser Ala Val Tyr Tyr Cys Ser Arg  
85 90 95

Asp Tyr Gly Tyr Tyr Phe Asp Phe Trp Gly Gln Gly Thr Thr Leu Thr  
100 105 110

Val Ser

<210> 81  
<211> 116  
<212> PRT  
<213> Mus musculus

<400> 81

Glu Val Gln Leu Gln Gln Ser Gly Pro Asp Leu Val Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ser Phe Ser Thr Tyr  
20 25 30

Tyr Met His Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile  
35 40 45

Gly Arg Val Asp Pro Asp Asn Gly Gly Thr Ser Phe Asn Gln Lys Phe  
50 55 60

Lys Gly Lys Ala Ile Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Gly Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Arg Asp Asp Tyr Tyr Phe Asp Phe Trp Gly Gln Gly Thr Ser  
100 105 110

Leu Thr Val Ser  
115

<210> 82  
<211> 119  
<212> PRT



<213> Mus musculus

<400> 82

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Met Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Thr Gly Tyr Thr Phe Ser Ser Phe  
20 25 30

Trp Ile Glu Trp Val Lys Gln Arg Pro Gly His Gly Leu Glu Trp Ile  
35 40 45

Gly Glu Ile Leu Pro Gly Ser Gly Gly Thr His Tyr Asn Glu Lys Phe  
50 55 60

Lys Gly Lys Ala Thr Phe Thr Ala Asp Lys Ser Ser Asn Thr Ala Tyr  
65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly His Ser Tyr Tyr Phe Tyr Asp Gly Asp Tyr Trp Gly Gln  
100 105 110

Gly Thr Ser Val Thr Val Ser  
115

<210> 83

<211> 123

<212> PRT

<213> Mus musculus

<400> 83

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Ala Gly Ser  
1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
20 25 30

Gly Val Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile  
35 40 45

Gly Tyr Ile Asn Pro Gly Lys Gly Tyr Leu Ser Tyr Asn Glu Lys Phe  
33/38

50                                      55                                      60  
 Lys Gly Lys Thr Thr Leu Thr Val Asp Arg Ser Ser Ser Thr Ala Tyr  
 65                                      70                                      75                                      80  
 Met Gln Leu Arg Ser Leu Thr Ser Glu Asp Ala Ala Val Tyr Phe Cys  
 85                                      90                                      95  
 Ala Arg Ser Phe Tyr Gly Gly Ser Asp Leu Ala Val Tyr Tyr Phe Asp  
 100                                      105                                      110  
 Ser Trp Gly Gln Gly Thr Thr Leu Thr Val Ser  
 115                                      120  
 <210> 84  
 <211> 21  
 <212> PRT  
 <213> Homo sapien  
 <400> 84  
 Asn Met Thr Ser Ala Lys Pro Gly Gln Lys Gly Asp Ser Asp Ser Glu  
 1                                      5                                      10                                      15  
 Gly Lys Lys Arg Ala  
 20  
 <210> 85  
 <211> 21  
 <212> PRT  
 <213> Homo sapien  
 <400> 85  
 Asp Gln Thr Ser Val Arg Pro Gly Glu Lys Gly Ser Ser Asp Pro Glu  
 1                                      5                                      10                                      15  
 Gly Lys Lys Arg Thr  
 20  
 <210> 86  
 <211> 20  
 <212> PRT  
 <213> Homo sapien  
 <400> 86

Asp Val Thr Ser Val Arg Pro Gly Lys Lys Gly Ser Ser Asp Pro Glu  
1 5 10 15

Gly Lys Lys Arg  
20

<210> 87  
<211> 21  
<212> PRT  
<213> Homo sapien

<400> 87

Asp Gln Thr Ser Val Arg Pro Gly Lys Lys Gly Ser Ser Asp Pro Glu  
1 5 10 15

Gln Lys Lys Arg Thr  
20

<210> 88  
<211> 20  
<212> PRT  
<213> Homo sapien

<400> 88

Glu Val Thr Gly Pro Arg Pro Gly Gln Arg Gly Asp Ser Asp Pro Glu  
1 5 10 15

Gln Lys Lys Arg  
20

<210> 89  
<211> 20  
<212> PRT  
<213> Homo sapien

<400> 89

Asp Val Thr Leu Leu Pro Pro Gly Gln Arg Gly Asp Ala Asp Ala Glu  
1 5 10 15

Gln Lys Lys Arg  
20

<210> 90  
<211> 24  
<212> PRT

<213> Homo sapien

<400> 90

Gln Gln Ala Val Lys Pro Gly Lys Gly Thr Pro Gly Gln Gln Lys Lys  
1 5 10 15

Gly Lys Ser Ser Ser Glu Ala Ser  
20

<210> 91

<211> 24

<212> PRT

<213> Homo sapien

<400> 91

Gln Gln Ala Val Lys Pro Gly Lys Gly Thr Pro Gly Gln Gln Lys Gln  
1 5 10 15

Gly Thr Pro Ser Ser Glu Lys Ser  
20

<210> 92

<211> 24

<212> PRT

<213> Homo sapien

<400> 92

Gln Gln Ala Ala Lys Pro Gly Lys Gly Thr Pro Gly Gln Gln Lys Gln  
1 5 10 15

Gly Gly Ser Ser Ser Glu Gln Ser  
20

<210> 93

<211> 24

<212> PRT

<213> Homo sapien

<400> 93

Gln Gln Ala Val Lys Pro Gly Lys Gly Thr Pro Gly Gln Gln Lys Gln  
1 5 10 15

Gly Thr Ser Ser Ser Glu Gln Ser  
20

<210> 94  
<211> 23  
<212> PRT  
<213> Homo sapien

<400> 94

Gln Ala Val Lys Pro Gly Lys Gly Thr Pro Gly Gln Gln Lys Gln Gly  
1 5 10 15

Lys Ser Ser Ser Glu Gln Ser  
20

<210> 95  
<211> 113  
<212> PRT  
<213> Mus musculus

<400> 95

Asn Ile Met Leu Thr Gln Ser Pro Ser Ser Leu Ala Val Ser Ala Gly  
1 5 10 15

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Phe Phe Ser  
20 25 30

Ser Ser Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Ile Pro Gly Gln  
35 40 45

Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val  
50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr  
65 70 75 80

Ile Ser Ser Val Gln Ser Glu Asp Leu Ala Ile Tyr Tyr Cys His Gln  
85 90 95

Tyr Leu Ser Ser Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
100 105 110

Arg

<210> 96

<211> 118  
<212> PRT  
<213> Mus musculus

<400> 96

Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Val Val Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
20 25 30

Tyr Ile His Trp Ile Lys Gln Thr Pro Gly Gln Gly Leu Glu Trp Val  
35 40 45

Gly Val Ile Tyr Pro Gly Asn Asp Asp Ile Ser Tyr Asn Gln Lys Phe  
50 55 60

Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Thr Thr Ala Tyr  
65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Glu Val Arg Leu Arg Tyr Phe Asp Val Trp Gly Ala Gly Thr  
100 105 110

Thr Val Thr Val Ser Ser  
115